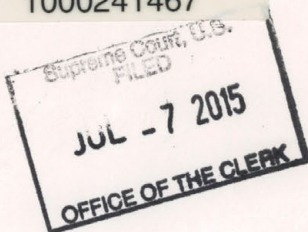




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PECOS RIVER COMPACT

Report of the River Master

Water Year 2014

Accounting Year 2015

Final Report

June 26, 2015

**Neil S. Grigg
River Master of the Pecos River
749 S. Lemay, Ste. A3, PMB 330
Fort Collins, Colorado 80524**

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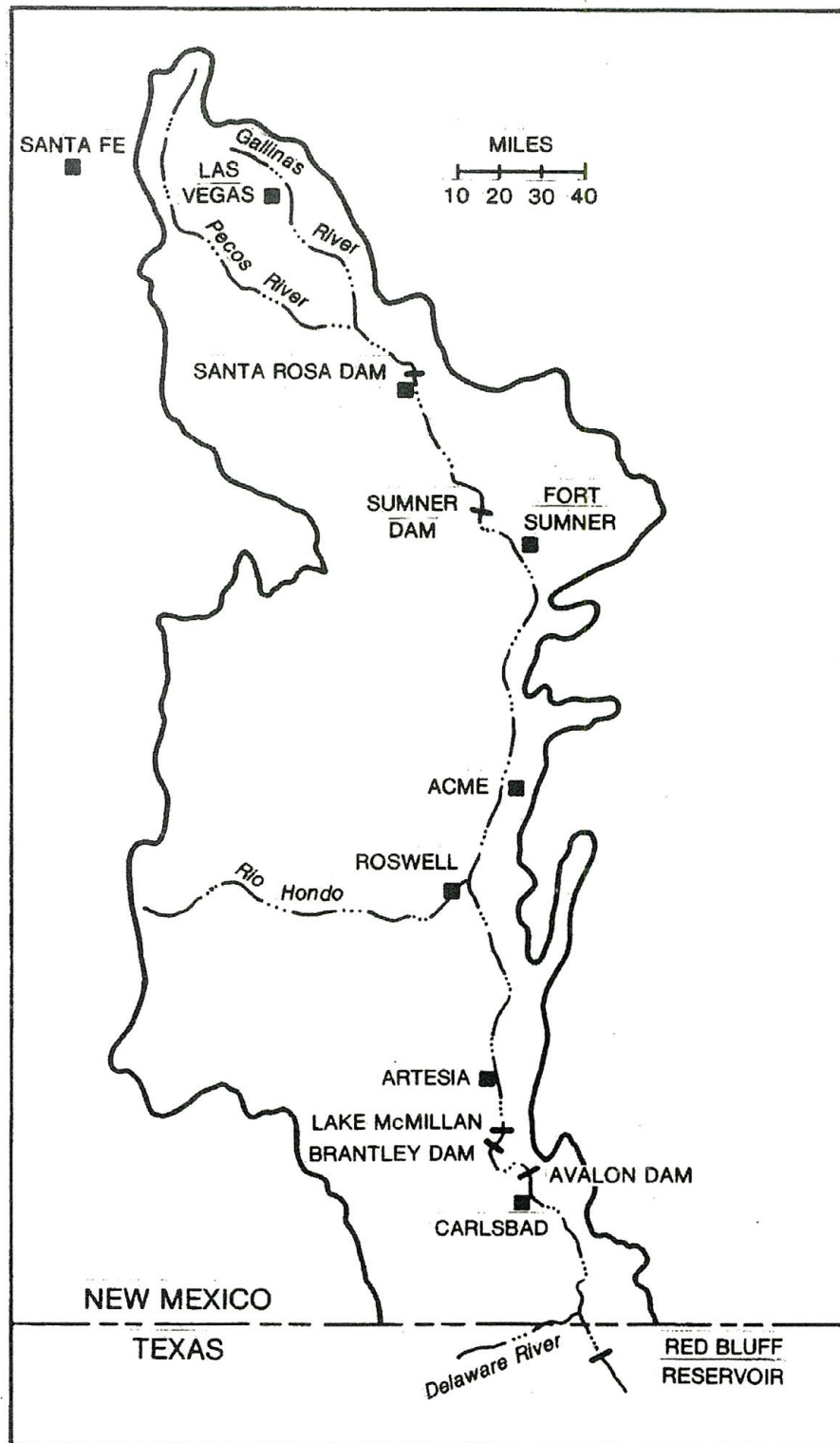
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Map of Pecos River Basin Showing Accounting Reaches

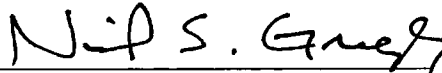
PECOS RIVER COMPACT
Supreme Court of the United States
No. 65, Original
Amended Decree

Final Report of the River Master
Water Year 2014 - Accounting Year 2015
June 26, 2015

Purpose of the Report. In its Amended Decree issued March 28, 1988 the Supreme Court of the United States appointed a River Master of the Pecos River and directed him to "... Deliver to the parties a Preliminary Report setting forth the tentative results of the calculations required by Section III.B.1 of this Decree by May 15 of the accounting year..." and to consider "... any written objections to the Preliminary Report submitted by the parties prior to June 15 of the accounting year..." and to deliver "... to the parties a Final Report setting forth the final results of the calculations required by Section III.B.1 of this Decree by July 1 of the accounting year." This is the required Final Report with the determination of:

- a. The Article III(a) obligation;
- b. Any shortfall or overage, which calculation shall disregard deliveries of water pursuant to an Approved Plan;
- c. The net shortfall, if any, after subtracting any overages accumulated in previous years, beginning with water year 1987.

Result of Calculations and Statement of Shortfall or Overage. The results of the calculations in this Final Report show that New Mexico's delivery in Water Year 2014 was an overage of 1,900 acre-feet. The accumulated overage since the beginning of Water Year 1987 is 97,600 acre-feet.



Neil S. Grigg
River Master of the Pecos River

Pecos River Compact		
Accumulated Shortfall or Overage		
	June 25, 2015	
Water Year	Annual Overage or Shortfall, AF	Accumulated Overage or Shortfall, AF
1987	15,400	15,400
1988	23,600	39,000
1989	2,700	41,700
1990	-14,100	27,600
1991	-16,500	11,100
1992	10,900	22,000
1993	6,600	28,600
1994	5,900	34,500
1995	-14,100	20,400
1996	-6,700	13,700
1997	6,100	19,800
1998	1,700	21,500
1999	1,400	22,900
2000	-12,300	10,600
2001	-700	9,900
2002	-3,000	6,900
2003	2,000	8,900
2004	8,300	17,200
2005	24,000	41,200
2006	26,100	67,300
2007	25,200	92,500
2008	6,000	98,500
2009	1,600	100,100
2010	-500	99,600
2011	500	100,100
2012	1,900	102,000
2013	-6,300	95,700
2014	1,900	97,600

Table 1. General Calculation of Annual Departures in TAF (B.1)			
Water Year	2014		
6/24/2015			
	WY 2012	WY 2013	WY 2014
B.1.a. Index Inflows			
(1) Annual flood inflow			
(a) Gaged flow Pecos R bel Alamogordo Dam	64.9	63.6	120.6
(b) Flood Inflow Alamogordo - Artesia (Table 2)	-17.2	54.4	57.3
(c) Flood Inflow Artesia - Carlsbad (Table 3)	11.2	39.9	42.5
(d) Flood Inflow Carlsbad - State Line (Table 4)	3.2	23.2	122.8
Total (annual flood inflow)	62.1	181.1	343.2
(2) Index Inflow (3-year avg)			195.5
B.1.b. 1947 Condition Delivery Obligation (Index Outflow)			89.3
B.1.c. Average Historical (Gaged) Outflow			
(1) Annual historical outflow			
(a) Gaged Flow Pecos River at Red Bluff NM	17.7	51.0	146.6
(b) Gaged Flow Delaware River nr Red Bluff NM	1.7	12.2	48.3
(c) Metered diversions Permit 3254 into C-2713	0.0	0.2	0.2
Total Annual Historical Outflow	19.4	63.4	195.1
(2) Average Historical Outflow (3-yr average)			92.6
B.1.d. Annual Departure			3.4
C. Adjustments to Computed Departure			
1. Adjustments for Depletions above Alam Dam			
a. Depletions Due to Irrigation (Table 5)	3.2	2	-0.2
b. Depl fr Operation of Santa Rosa Reservoir (Table 6)	1.0	8.6	-1.7
c. Transfer of Water Use to Upstream of AD	0	0	0
Recomputed Index Inflows			
(1) Annual flood inflow			
(a) Gaged flow Pecos R bel Alamogordo Dam	69.1	74.2	118.7
(b) Flood Inflow Alamogordo - Artesia	-17.2	54.4	57.3
(c) Flood Inflow Artesia - Carlsbad	11.2	39.9	42.5
(d) Flood Inflow Carlsbad - State Line	3.2	23.2	122.8
Total (annual flood inflow)	66.3	191.7	341.3
Recomputed Index Inflow (3-year avg)			199.8
Recomputed 1947 Condition Del Outflow (Index Outflow)			92.1
Recomputed Annual Departures			0.6
Credits to New Mexico			
C.2 Depletions Due to McMillan Dike			1.4
C.3 Salvage Water Analysis			0
C.4 Unappropriated Flood Waters			0
C.5 Texas Water Stored in NM Reservoirs			0
C.6 Beneficial C.U. Delaware River Water			0
Final Calculated Departure, TAF			1.9

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 1, 1861. It is a very important document, as it sets out the President's policy for the new year. The President states that he is pleased to see the Congress assembled, and that he is confident that the country is in a good position to meet the challenges of the future. He also mentions the recent election of Abraham Lincoln as President, and expresses his confidence in the new administration.

2. The second part of the document is a report from the Secretary of the Treasury, dated January 1, 1861. It provides a detailed account of the financial state of the country at the beginning of the year. The report states that the country is in a sound financial position, with a strong and stable currency. It also mentions the recent increase in the national debt, and expresses the Secretary's confidence that the country will be able to manage the debt effectively.

3. The third part of the document is a report from the Secretary of the Interior, dated January 1, 1861. It provides a detailed account of the state of the country's natural resources, including land, water, and minerals. The report states that the country is rich in natural resources, and that the government is committed to managing these resources in a sustainable and responsible manner. It also mentions the recent discovery of gold in California, and expresses the Secretary's confidence that the country will continue to discover new resources in the future.

4. The fourth part of the document is a report from the Secretary of the War, dated January 1, 1861. It provides a detailed account of the state of the country's military forces, including the Army, Navy, and Marine Corps. The report states that the country's military forces are well-trained and well-equipped, and that the government is committed to maintaining a strong and effective military. It also mentions the recent increase in the size of the military, and expresses the Secretary's confidence that the country will be able to meet any future challenges.

5. The fifth part of the document is a report from the Secretary of the State, dated January 1, 1861. It provides a detailed account of the country's foreign relations, including its relations with other countries and its participation in international organizations. The report states that the country is committed to maintaining a policy of peace and cooperation with other nations, and that it is actively engaged in international affairs. It also mentions the recent signing of the Treaty of Commerce with France, and expresses the Secretary's confidence that the country's foreign relations are in a strong and stable position.

Table 2. Determination of Flood Inflows, Alamogordo Dam to Artesia (B.3)

1. The first part of the document is a list of the names of the persons who have been appointed to the various offices of the city of New York.

2. The second part of the document is a list of the names of the persons who have been appointed to the various offices of the city of New York.

3. The third part of the document is a list of the names of the persons who have been appointed to the various offices of the city of New York.

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11. The eleventh part of the document is a list of the names of the persons who have been appointed to the various offices of the city of New York.

12. The twelfth part of the document is a list of the names of the persons who have been appointed to the various offices of the city of New York.

13. The thirteenth part of the document is a list of the names of the persons who have been appointed to the various offices of the city of New York.

14. The fourteenth part of the document is a list of the names of the persons who have been appointed to the various offices of the city of New York.

15. The fifteenth part of the document is a list of the names of the persons who have been appointed to the various offices of the city of New York.

16. The sixteenth part of the document is a list of the names of the persons who have been appointed to the various offices of the city of New York.

17. The seventeenth part of the document is a list of the names of the persons who have been appointed to the various offices of the city of New York.

18. The eighteenth part of the document is a list of the names of the persons who have been appointed to the various offices of the city of New York.

19. The nineteenth part of the document is a list of the names of the persons who have been appointed to the various offices of the city of New York.

20. The twentieth part of the document is a list of the names of the persons who have been appointed to the various offices of the city of New York.

Table 3. Determination of Flood Inflows, Artesia to Carlsbad (B.4)													
Water Year	2014												
6/24/2015													
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOT
Rio Penasco at Dayton	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fourmile Draw nr Lakew	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	7.4	0.0	0.0	0.0	7.5
South Seven Rivers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0	7.6
Rocky Arroyo at Hwy Br	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	0.0	0.0	0.0	19.5
Flood Inflow, Art-DS3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	34.3	0.0	0.0	0.0	34.6
Pecos R at Dam Site 3	1.1	1.1	3.9	17.1	22.9	14.4	12.0	11.6	22.1	1.9	1.4	1.5	111.0
CB Sprgs New Water (from Table 7)	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-3.8
Total Inflow, DS3 - CB	0.8	0.8	3.6	16.8	22.6	14.1	11.7	11.3	21.8	1.6	1.1	1.1	107.2
Evap Loss, Lake Avalon (from Table 10)	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.3	-0.4	0.3	0.2	0.2	3.7
Storage Chg, Lake Avalon (from Table 11)	0.4	0.2	-1.6	2.6	-2.8	1.8	-1.5	-0.1	3.0	-3.2	0.9	0.9	0.6
Carls ID diversions	0.0	0.0	4.0	10.7	9.0	10.0	10.6	10.0	2.0	3.9	0.0	0.0	60.1
93% CID diver	0.0	0.0	3.7	10.0	8.4	9.3	9.8	9.3	1.9	3.6	0.0	0.0	55.9
Other depletions	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	1.4
Dark Canyon at Csbad	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	0.0	0.0	0.0	14.5
Pecos b Dark Canyon	2.6	1.8	1.9	1.8	16.6	1.3	0.9	2.3	31.7	2.4	2.3	2.3	68.1
Pecos R at Carlsbad	2.6	1.8	1.9	1.8	16.6	1.3	0.9	2.3	17.2	2.4	2.3	2.3	53.5
Total Outflow	3.3	2.4	4.6	15.0	22.8	13.1	10.0	12.0	21.7	3.3	3.4	3.4	115.1
Flood Inflow, DS3-CB	2.6	1.7	1.0	-1.9	0.2	-1.0	-1.6	0.7	0.0	1.7	2.3	2.3	7.9
Flood Inflow, Art-CB	2.6	1.7	1.0	-1.9	0.3	-0.9	-1.6	0.8	34.3	1.7	2.3	2.3	42.5

Table 4. Summary Table for Computations, Carlsbad to State Line (B.5)

Water Year	2014						
6/24/2015							
	BCB - RB	BCB - RB*	Del R***	DC			
	RM	USGS	USGS				
Jan	0.0	0.0	0.0	0.0			
Feb	0.0	0.2	0.0	0.0			
Mar	0.0	0.2	0.0	0.0			
Apr	0.2	0.7	0.0	0.0			
May	0.2	0.1	0.0	0.0			
Jun	0.2	0.2	0.0	0.0			
Jul**	0.1	0.3	0.1	0.0			
Aug	0.2	0.0	0.0	0.0			
Sep**	74.2	59.6	46.3	0.0			
Oct	0.8	1.0	0.0	0.0			
Nov	0.3	0.8	0.0	0.0			
Dec	0.0	0.2	0.0	0.0			
Total	76.4	63.2	46.4	0.0			
Summary of flood inflows, Carlsbad to State Line, TAF							
Red Bluff - Carlsbad + Dark C RM calcs)					76.4		
Delaware River (USGS Computation)					46.4		
Total Flood Inflow, Carlsbad to State Line					122.8		
* USGS calculations BCB-RB for comparison only. Negative FIF reports not included.							
** See separate calculation for BCB to RB in the Preliminary Report							
*** As corrected, see Response to Objections.							

1. The first part of the document is a letter from the author to the reader, explaining the purpose of the study and the methods used. The letter is dated 1st January 1998 and is addressed to the reader. The author states that the purpose of the study is to investigate the effects of a new drug on the treatment of a certain condition. The methods used are described in detail, including the selection of participants, the design of the study, and the data collection process. The author also mentions that the study was approved by the relevant ethical committees.

2. The second part of the document is a summary of the results of the study. The author reports that the new drug was found to be effective in the treatment of the condition, with a significant reduction in symptoms compared to the control group. The results are presented in a clear and concise manner, using tables and graphs to illustrate the data. The author also discusses the limitations of the study and the need for further research.

3. The third part of the document is a conclusion and a discussion of the implications of the findings. The author concludes that the new drug is a promising treatment for the condition and that further research is needed to confirm these findings. The author also discusses the potential implications of the findings for the treatment of the condition and for the development of new drugs. The author mentions that the findings of the study could lead to a change in the standard of care for the condition and that the new drug could be used in the treatment of other conditions.

4. The fourth part of the document is a list of references and a list of acknowledgments. The references are listed in alphabetical order and include books, journals, and other sources. The acknowledgments are given to the people who helped with the study, including the participants, the research assistants, and the funding agencies. The author also mentions that the study was supported by a grant from the National Institutes of Health.

Table 5. Depletions Due to Irrigation Above Sumner Dam (C.1.a)

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the transparency and accountability of the organization.

2. The second part outlines the specific procedures for recording transactions. It details the steps involved in capturing data, ensuring its accuracy, and storing it securely.

3. The third part addresses the challenges associated with record-keeping, such as data loss, corruption, and unauthorized access. It provides strategies to mitigate these risks and ensure the integrity of the records.

4. The fourth part discusses the role of technology in modern record-keeping. It highlights the benefits of digital storage and automated systems in improving efficiency and reducing errors.

5. The fifth part covers the legal and regulatory requirements for record-keeping. It explains how organizations must comply with various standards and laws to avoid penalties and maintain trust.

6. The sixth part provides a summary of the key points discussed in the document. It reiterates the importance of a robust record-keeping system for the long-term success of the organization.

7. The final part offers recommendations for implementing a comprehensive record-keeping strategy. It suggests best practices for training staff, selecting appropriate technology, and establishing clear policies.

Table 6. Depletions Due to Santa Rosa Reservoir Operations (C.1.b)

Table 7. Carlsbad Springs New Water [B.4.c.(2)]					
Water Year	2014				
5/2/2015					
		TAF	AF/day	cfs	Totals
Pecos R bel DC		68.1	186.0	93.7	93.7
Dark Canyon		14.5	39.8	20.1	20.1
Pecos R bel Lake Avalon		34.9	95.4	48.1	48.1
Depletion, cfs					2.0
CID lag seep, cfs (from Table 8)					6.1
Return flow, cfs					1.0
Lake Av lagged seep, cfs (from Table 9)					22.8
PR seepage, cfs					3.0
Carls new water, cfs					-5.2
Carls new wat, TAF					-3.8
Carls new wat monthly, TAF					-0.3

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1. The first part of the document is a list of names and their corresponding addresses. The names are listed in the first column, and the addresses are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.

2. The second part of the document is a list of names and their corresponding phone numbers. The names are listed in the first column, and the phone numbers are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The phone numbers are: 123-456-7890, 987-654-3210, and 555-123-4567.

3. The third part of the document is a list of names and their corresponding email addresses. The names are listed in the first column, and the email addresses are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The email addresses are: john.doe@example.com, jane.smith@example.com, and bob.johnson@example.com.

4. The fourth part of the document is a list of names and their corresponding social media handles. The names are listed in the first column, and the social media handles are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The social media handles are: @johndoe, @janesmith, and @bobjohnson.

5. The fifth part of the document is a list of names and their corresponding birth dates. The names are listed in the first column, and the birth dates are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The birth dates are: 1980-01-01, 1985-02-02, and 1990-03-03.

6. The sixth part of the document is a list of names and their corresponding heights. The names are listed in the first column, and the heights are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The heights are: 180 cm, 170 cm, and 190 cm.

7. The seventh part of the document is a list of names and their corresponding weights. The names are listed in the first column, and the weights are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The weights are: 75 kg, 65 kg, and 85 kg.

8. The eighth part of the document is a list of names and their corresponding eye colors. The names are listed in the first column, and the eye colors are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The eye colors are: Blue, Green, and Brown.

9. The ninth part of the document is a list of names and their corresponding hair colors. The names are listed in the first column, and the hair colors are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The hair colors are: Black, Blonde, and Brown.

10. The tenth part of the document is a list of names and their corresponding blood types. The names are listed in the first column, and the blood types are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The blood types are: A, B, and O.

11. The eleventh part of the document is a list of names and their corresponding favorite foods. The names are listed in the first column, and the favorite foods are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The favorite foods are: Pizza, Pasta, and Burger.

12. The twelfth part of the document is a list of names and their corresponding favorite sports. The names are listed in the first column, and the favorite sports are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The favorite sports are: Football, Basketball, and Baseball.

13. The thirteenth part of the document is a list of names and their corresponding favorite movies. The names are listed in the first column, and the favorite movies are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The favorite movies are: The Matrix, The Godfather, and The Shawshank Redemption.

14. The fourteenth part of the document is a list of names and their corresponding favorite books. The names are listed in the first column, and the favorite books are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The favorite books are: The Hobbit, The Lord of the Rings, and The Harry Potter series.

15. The fifteenth part of the document is a list of names and their corresponding favorite colors. The names are listed in the first column, and the favorite colors are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The favorite colors are: Red, Blue, and Green.

16. The sixteenth part of the document is a list of names and their corresponding favorite animals. The names are listed in the first column, and the favorite animals are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The favorite animals are: Dog, Cat, and Bird.

17. The seventeenth part of the document is a list of names and their corresponding favorite fruits. The names are listed in the first column, and the favorite fruits are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The favorite fruits are: Apple, Banana, and Orange.

18. The eighteenth part of the document is a list of names and their corresponding favorite vegetables. The names are listed in the first column, and the favorite vegetables are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The favorite vegetables are: Broccoli, Carrot, and Spinach.

19. The nineteenth part of the document is a list of names and their corresponding favorite drinks. The names are listed in the first column, and the favorite drinks are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The favorite drinks are: Coffee, Tea, and Soda.

20. The twentieth part of the document is a list of names and their corresponding favorite seasons. The names are listed in the first column, and the favorite seasons are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The favorite seasons are: Spring, Summer, and Winter.

Table 12. Data Required for River Master Manual Calculations

Water Year	2014												
6/23/2015													
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL
STREAMFLOW GAGING RECORDS, TAF													
Pecos R b Sumner Dam	0.9	0.7	4.4	25.2	24.3	23.2	15.7	14.8	4.4	4.9	0.7	1.4	120.6
Fort Sumner Main C	0.0	0.0	4.3	4.5	4.8	5.3	4.6	4.9	3.4	5.3	0.0	0.0	37.1
Pecos R nr Artesia	3.6	3.3	3.5	6.4	43.6	7.7	27.9	18.7	33.3	8.2	5.2	5.0	166.3
Rio Penasco at Dayton	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fourmile Draw nr Lakewood	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	7.4	0.0	0.0	0.0	7.5
South Seven Rivers nr Lkwd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0	7.6
Rocky Arroyo at Hwy Br nr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	0.0	0.0	0.0	19.5
Pecos R at Dam Site 3	1.1	1.1	3.9	17.1	22.9	14.4	12.0	11.6	22.1	1.9	1.4	1.5	111.0
Pecos bel Avalon Dam	0.0	0.0	0.0	0.8	15.8	0.0	0.0	1.7	16.7	0.0	0.0	0.0	34.9
Carlsbad Main Canal	0.0	0.0	4.0	10.7	9.0	10.0	10.6	10.0	2.0	3.9	0.0	0.0	60.1
Dark Canyon at Carlsbad	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	0.0	0.0	0.0	14.5
Pecos below Dark Canyon	2.6	1.8	1.9	1.8	16.6	1.3	0.9	2.3	31.7	2.4	2.3	2.3	68.1
Pecos R at Red Bluff	3.5	2.8	2.6	2.5	17.7	2.3	2.1	3.5	93.2	6.1	5.6	4.9	146.6
Delaware R nr Red Bluff	0.1	0.1	0.1	0.1	0.0	0.0	0.2	0.0	46.7	0.4	0.3	0.3	48.3
GAGE HEIGHTS													
Avalon gage ht, end mo	75.40	75.70	73.50	77.00	73.20	75.70	73.60	73.40	77.30	73.10	74.40	75.60	
Avalon gage ht, avg	75.06	75.57	75.36	74.43	75.55	73.59	74.00	74.97	75.44	75.03	73.80	75.00	
Sumner Lake ga ht, end mo	62.08	63.12	62.72	61.40	58.03	55.89	64.13	60.57	60.76	60.17	61.39	62.55	
Sumner Lake gage ht, avg	61.52	62.65	63.01	62.21	58.02	57.23	59.24	61.03	60.52	60.42	60.83	62.00	
Lake S Rosa ga ht, end mo	45.20	45.00	44.64	38.06	35.76	29.95	30.32	37.39	37.46	37.03	36.75	36.55	
Lake S Rosa ga ht, avg	45.30	45.10	44.85	43.65	35.06	35.53	28.87	36.94	37.43	37.22	36.88	36.66	
PRECIPITATION, INCHES*													
Brantley Lake	0.00	0.19	0.34	0.75	2.16	0.60	0.68	2.46	10.98	0.47	0.71	0.40	19.74
Las Vegas FAA AP	0.00	0.05	0.01	0.54	1.16	0.55	4.93	1.87	1.95	0.32	0.64	0.62	12.64
Pecos National Monument	0.00	0.15	0.07	0.29	2.00	0.54	3.37	3.38	2.03	0.82	0.84	0.95	14.44
Santa Rosa	0.03	0.06	0.26	0.80	1.90	0.62	6.09	1.32	1.31	0.14	0.97	0.46	13.96
Lake Santa Rosa	0.03	0.06	0.26	0.80	1.90	0.62	6.09	1.32	1.31	0.14	0.97	0.46	13.96
Sumner Lake	0.00	0.11	0.20	0.08	1.93	0.85	5.15	1.72	4.13	0.49	0.59	0.26	15.51
* Santa Rosa dam substituted for missing Santa Rosa data. Bat Cave Draw RAWS substituted for Carlsbad Caverns data.													
PAN EVAPORATION, INCHES													
Lake Santa Rosa	3.72	4.98	8.58	8.62	10.88	11.93	11.08	9.77	6.88	6.32	4.71	3.72	91.2
Lake Sumner	4.87	5.01	10.37	13.86	13.94	15.11	14.50	11.28	6.97	7.37	4.19	3.23	110.7
Brantley Lake	4.65	5.60	9.24	11.76	13.57	15.00	14.05	10.26	6.42	6.58	4.80	4.34	106.3
OTHER REPORTS													
Base Acme-Art, TAF (USGS)	2.1	2.1	2.3	1.9	1.8	1.8	1.6	1.5	1.5	3.0	3.1	3.1	25.8
Pump depl Ac-Artesia, TAF	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.7
Pumping, C-2713, Malaga B													0.2
NM irrig inv, acres (3/9/2000)													11529
NM Transfer water use, TAF													
NM salvaged water, TAF													0.00
Texas, water stored NM, TAF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Texas, use Del water, TAF													

APPENDIX

RESPONSE TO STATES' OBJECTIONS AND PENDING ISSUES

1. Die folgenden Aussagen sind wahr oder falsch?

(a) $\sqrt{2} + \sqrt{3} = \sqrt{5}$

(b) $\sqrt{2} \cdot \sqrt{3} = \sqrt{6}$

(c) $\sqrt{2} + \sqrt{3} = \sqrt{2+3}$

(d) $\sqrt{2} + \sqrt{3} = \sqrt{2} \cdot \sqrt{3}$

(e) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

(f) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

(g) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

(h) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

(i) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

(j) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

(k) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

(l) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

(m) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

(n) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

(o) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

(p) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

(q) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

(r) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

(s) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

(t) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

(u) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

(v) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

(w) $\sqrt{2} + \sqrt{3} = \sqrt{2+3+2\sqrt{6}}$

RESPONSE TO STATES' OBJECTIONS

Final Report, Accounting Year 2015

NEW MEXICO'S OBJECTIONS

1. Table 3. Determination of Flood Inflows, Artesia to Carlsbad.

New Mexico noted an error in Table 3 where 2013 data were used for CID diversions. The objection is accepted. See #3 below in the responses to Texas's objections. Tables 1 and 3 have been corrected.

2. Table 4. Flood Inflow, Carlsbad to State Line.

New Mexico explained the 2014 CID release schedules from Avalon Dam. Two such releases were noted: April 30 through May 12 and August 3 through 10. In the case of WY 2014, New Mexico indicated that the Preliminary Report did not exclude from scalping the 1,733 AF release in August. This was reanalyzed to respond to the objection.

The operational release from Lake Avalon appears at the Pecos River below Dark Canyon gage and is also apparent at the Red Bluff gage later and more spread out. Given the rainfall that occurred on August 2-3, it is difficult to identify exactly which components of the hydrographs are due to releases and to rainfall. However, it is evident that little flood runoff occurred during August. The analysis in the Preliminary Report showed 0.23 TAF of flood runoff for the month. The River Master's reanalysis, taking into account New Mexico's report of the releases and studying the lag more closely, showed a total of 0.27 TAF. The reanalysis is not considered as more accurate than the original analysis in the Preliminary Report so no change was made.

The operational releases are apparent on the hydrographs, but it will be helpful if in the future New Mexico includes a table to show the releases in future compact accounting data transmittals.

3. Table RM1. End of Month and Average Reservoir Elevations for WY 2014.

New Mexico reported corrections for reservoir elevations at Lake Santa Rosa. See item #1 for Texas's objection on the same error. The average gage height was corrected and the value shown in the Corps report of 4,735.06 was used. Table 6 has been corrected. The error for end-of-month reservoir elevation did not require correction as it was anticipated in the Preliminary Report.

4. Monthly Pumping for C-2713 for WY 2014.

New Mexico reported a corrected value for the monthly pumping, see # 1 below in Texas's objections. Tables 1 and 12 were corrected.

1870-1871

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1870-1871

5. Table 4. Flood Flows in the Delaware River.

New Mexico found an error in the summation of scalped Delaware River flows as reported by USGS. This is also discussed in Texas's objection # 4 below. The objection is accepted, and the revised value is 46.3 TAF. See Texas #4 below for additional discussion.

TEXAS'S OBJECTIONS

1. Table 12. Data Required for River Master Manual Calculations, WY 2014.

Lake Santa Rosa Gage Height. Texas found an error in the reported value for average gage height for May at Lake Santa Rosa. New Mexico reported the same error in the data provided to the River master. The objection is accepted and Tables 6 and 12 have been corrected. Texas showed different end of year storage values for both lakes than in the Preliminary Report, but they could not be checked and did not affect the result.

Texas also noted the incorrect footnote that the elevation for Lake Santa Rosa was referred to the 4600 foot level, and it has been removed.

Base Inflows, Acme to Artesia Reach. Texas found rounding errors from the USGS data report for May and September. The objection is accepted and corrections made to Tables 1 and 2.

Pumping for C-2713 Diversion for the Malaga Bend Project. Texas found an incorrect value for the pumping totals. New Mexico also reported the same error. The pumping totals have been revised to 247 acre-feet.

2. Table 6. Depletions Due to Santa Rosa Reservoir Operations [C.1.b], WY 2014.

Table 6 has been revised to reflect the changed data reported in item #1 above under "Lake Santa Rosa Gage Height."

3. Table 3. Determination of Flood Inflows, Artesia to Carlsbad [B.4], WY 2014.

Texas reported that the Preliminary Report contained incorrect data for Carlsbad Irrigation District Diversions resulting from use of 2013 data (Table 12 has the correct 2014 data but it was not added to Table 3). New Mexico also noted this error, and the objection is accepted. Tables 1 and 3 have been corrected.

4. Table 4. Summary Table for Computations, Carlsbad to State Line [B.5], WY 2014.

USGS Scalped Delaware River Flood Inflows. Texas noted the same error in summation of flows as New Mexico did (see NM #5 above). The objection is accepted

Texas Scalped Delaware River Flood Inflows. Texas found an event in July that added 0.1 TAF to the total computed by USGS. The River Master examined the July data and agrees that it should be counted so the objection is accepted. The total Delaware River flood inflow is therefore 46.4 TAF.

Carlsbad to Red Bluff Flood Flows. Texas recomputed scalped flood flows and arrived at 76.8 TAF as opposed to the Preliminary Report's 76.4 TAF. Exhibits G and H show Texas's computations. The difference between Texas's and the Preliminary Report's estimates is very small and there is much margin for different interpretations. For these reasons, the objection is rejected.

FINAL CALCULATED DEPARTURE

The Preliminary Report's Final Calculated Departure was an overage of 7.5 TAF. After considering the states' objections, the Final Determination is an overage of 1.9 TAF.

PENDING ISSUES

The Preliminary Report for Accounting Year 2015 explained two issues which remain unresolved: 1) possible revision of Dark Canyon inflow estimates based on an ongoing USGS reassessment of the gage rating curve; and 2) pending discussions about how to handle potential Unappropriated Flood Flows that occurred during Water Year 2014.

The Amended Decree provides two avenues for the States to agree on how these issues should be handled once they are clarified:

1. The States can reach agreement on the action; or
2. Either State can initiate a motion to be considered by the River Master.

The Amended Decree does not provide the River Master with unilateral authority to modify the Final Determination for Accounting Year 2015 unless the States initiate a request under one of these avenues.

